



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

JOURNAL
OF THE
NEW YORK
ENTOMOLOGICAL SOCIETY

Devoted to Entomology in General

Volume XXI, 1913

NEW YORK
PUBLISHED BY THE SOCIETY
QUARTERLY
1913

PRESS OF
THE NEW ERA PRINTING COMPANY
LANCASTER, PA

CONTENTS OF VOLUME XXI.

ALEXANDER, C. P.,	Report on a Collection of Crane-flies from the Colombian Andes taken by Mr. John Thomas Lloyd	193
ALDRICH, J. M.,	The North American Species of <i>Lispa</i>	126
BANKS, NATHAN,	Notes on African Myrmeleonidæ	149
BARBER, H. G.,	Aquatic Hemiptera	29
BIRD, HENRY,	The Passing of the Hickory Nut?	123
DAVIS, WM. T.,	Dragonflies of the Vicinity of New York City, with a Description of a New Species	11
	Two Additions to the List of New Jersey Cone-Headed Grasshoppers	177
FELT, E. P.,	Gall Midges in an Aquatic or Semiaquatic Environment..	62
	Descriptions of Gall Midges	213
FORBES, WM. T. M.,	An Artificial Table of the Species of <i>Hadena</i> Etc., of Eastern North America	179
GROSSBECK, JOHN A.,	The Relation of Mosquitoes to their Environment	55
HARRIS, EDW. D.,	Three New Cicindelids	67
LENG, CHARLES W.,	Aquatic Coleoptera	32
LUTZ, FRANK E.,	Factors in Aquatic Environment	1
MELANDER, A. L.,	A Synopsis of the Dipterous Groups <i>Agromyzinæ</i> , <i>Milichiinæ</i> , <i>Ochthiphilinæ</i> , and <i>Geomyzinæ</i>	219, 283

OSBURN, R. C.	
Odonata in Relation to the Hydrophytic Environment	9
Tabanidæ as Inhabitants of the Hydrophytic Area	63
Syrphidæ in the Hydrophytic Area	66
PEARSALL, R. F.,	
The Genus <i>Philobia</i> Duponchel, and Some Representatives in Our Fauna	186
ROBERTS, CHRIS. H.,	
Critical Notes on the Species of Haliplidæ of America North of Mexico with Descriptions of New Species ..	91
SCHAEFFER, CHAS.,	
Notes on some North American Species of Rhizophagus	309
SHERMAN, JOHN D.,	
Some Habits of Dytiscidæ	43
SLEIGHT, CHAS. E.,	
Relation of Trichoptera to Their Environment.	4
TILBURY, MARY R.,	
Notes on the Feeding and Rearing of the Midge <i>Chirono-</i> <i>mus Cajugæ</i> Johannsen	305
TOWNSEND, C. H. T.,	
On Trichiopoda Latreille, <i>Polistomyia</i> Townsend and <i>Trichopodopsis</i> New Genus	147
Notes on Exoristidæ and Allies	301
WINTERSTEINER, FRED.,	
Environment of Hydrophilidæ	54
Frederick Blanchard	69
A Correction	71, 313
Miscellaneous Notes	157, 273, 311
Proceedings of the New York Entomological Society	72, 163, 275, 313

INDEX TO NAMES OF INSECTS AND PLANTS IN VOLUME XXI.

Generic names begin with a capital, specific names with a small letter. New genera, subgenera, species, subspecies, varieties and *nomina nova* are printed in italics.

Acacia, 279
 Acanthaclisis, 149
 felina, 149
 longicornis, 150
 longicollis, 150
 rufescens, 149
 Acarthrophthalmus, 224, 226
 Acilius fraternus, 46
 semisulcatus, 46
 Actia retinæ, 304
 Actinotia, 181
 Acrometopia, 231
 maculata, 233
 punctata, 233
 Acronarista, 303
 Acronycta, 180
 Adalia bipunctata, 74
 Admontia, 304
 arnica, 304
 degeerioides, 304
 pergandei, 304
 Æshna canadensis, 21
 clepsydra, 21
 constricta, 22
 interna, 76
 umbrosa, 22
 verticalis, 22
 Ædes fuscus, 58, 61
 Agabeta acuductus, 36, 42, 48, 49
 Agabinus glabrellus, 53
 Agabus æruginosus, 47
 anthracinus, 49
 congener, 53
 disintegratus, 46
 erythropterus, 53
 gagates, 49, 52
 inscriptus, 49
 lincelus, 45
 obtusatus, 53
 parallelus, 53
 semipunctatus, 48, 49, 50

Agabus semivittatus, 53
 subfuscatus, 46
 tæniolatus, 47
 tricolor, 53
 Agrion, 11
 æquabile, 13
 dimidiatum apicale, 13
 maculatum, 13
 Agromyza, 226, 247, 251
 æneiventris, 251
 allecta, 257
 angulata, 254, 256
 anthrax, 254
 arbona, 226, 258
 auriceps, 253
 arctica, 257
 brassicæ, 258
 cinerascens, 253
 clara, 257
 coronata, 257
 cunctans, 251
 curvipalpus, 251
 davisii, 253
 diadema, 253
 flaviventris, 258
 flavonigra, 258
 genualis, 253
 grossicornis, 256, 258
 innominata, 257
 interfrontalis, 254, 256
 jucunda, 257
 lacteipennis, 246
 lima, 257
 luctuosa, 256
 longipennis, 254, 255
 malvæ, 257
 marginata, 256
 maura, 252
 melanopyga, 226, 258
 morianella, 252
 nasuta, 252

- Agromyza nigripes*, 253, 254, 258
pacifica, 257
parvicornis, 254, 255
pascuum, 258
perpusilla, 255, 257
picta, 256
platyptera, 256
pollinosa, 255
pruinosa, 255
pseudocunctans, 251
puella, 258
reptans, 253, 254, 258
rutiliceps, 253
schineri, 251
scutellata, 226, 257, 258
setifrons, 252
setosa, 258
simplex, 252
sorosis, 258
sulphuriceps, 255
superciliosa, 255, 256
tæniola, 256
tamia, 251, 258
terminalis, 254, 256
tiliæ, 252
tubifer, 257
varia, 257
variegata, 258
varifrons, 255
virens, 251
viridula, 253
Agrotiphila, 181
Agraperina inficita, 185
Alcis dislocaria, 86
Aldrichiella, 235
agromyzina, 240.
Alethmia, 181.
Amalus myriophylli, 40
Amathes, 181
Amblycorypha oblongifolia, 74, 75
Amolita, 180
Amphiagrion saucium, 18
Amphipyra, 180
Amphizoa, 52
Amphoroneura, 285
Amyna orbica, 180
Anagnota, 286
Anasa, 148
tristis, 48
Anax junius, 11 21
longipes, 21, 282
Anchocelis, 181
Anomalagrion hastatum, 18
Anomis, 181
Anopheles, 56
crucians, 57, 61
punctipennis, 57
Anopheles maculipennis, 57
barberi, 58
Anthocharis genutia, 281, 315
Anthomyza, 286, 293
gracilis, 293
pallida, 292
tenuis, 293
variegata, 293
Anthrenus musæorum, 85
Antineura, 247, 249
chlamydata, 250
palliata, 250
togata, 250
Anytus capax, 83
privatus, 83
Apamea, 181
Aphaniosoma, 287, 300
approximatum, 300
Arabis lyrata, 315
Arctobiella, 235, 240
obscura, 240
Argia apicalis, 15
bipunctata, 15
mæsta putrida, 14
tibialis, 15
translata, 14
violacea, 15
Arsilonche, 180
Asphondylia conspicua, 274
Aspinota, 284
Astrodiplosis, 217
speciosa, 218
Atarba columbiana, 199, 212
Aulacigaster, 228
Aulonium bidentatum, 275
Azolla, 40
Balsa, 180
Bankisus aculatus, 154
Basiaeschna janata, 21
Berosus, 54, 95
aculeatus, 77, 90
Bidessus, 45, 47
affinis, 45
pullus, 45
pulicarius, 47
flavicollis, 120
fuscatus, 47
Biomyia georgiæ, 74
Bombus, 276
Boyeria vinosa, 11, 20
Brachybamus electus, 90
Brotolomia, 181
Brychus, 279
Brychius, 93, 94, 95
elevatus, 94
parvulus, 94

- Bryocodia, 180
 Bryophila, 180
 lepidula, 180
 teratophora, 180
 Cacozenus, 236, 242, 300
 semiluteus, 242
 Cænocharis, 86
 Cakile edentula, 312
 Calopteryx, 11
 Calosoma calidum, 74
 frigidum, 318
 splendidum, 276
 wilcoxi, 318
 Caltha palustris, 281
 Calymnia, 181
 Camptomysia *tsuga*, 214
 Canthydrus, 45, 47
 puncticallis, 47
 Carabus sylvosus, 318
 vietinghovi, 281
 Caradrina, 180
 Carex, 62
 Carnus, 237
 Catabena, 181
 Catocala concumbens, 82
 relicta, 82
 Cecidomyia aceris, 74
 Cecropia, 79
 Celina, 45
 angustata, 45
 Celithemis elisa, 28
 eponina, 28
 monomelæna, 28
 ornata, 27
 Centroclisis, 149
 Ceratomegilla ulkei, 282
 Ceratomyza, 249
 Cercocarpis parvifolius, 215
 Cercotetix verruculatus, 86
 Cerodonta, 247, 249
 dorsalis, 249
 femorals, 249, 300
 Ceutorhynchus hamiltoni, 312
 Chamæmyia elegans, 233
 Chaetophleps crassinervis, 302, 303
 Chlænus leucoscelis, 311, 315
 Chilosis alaskensis, 66
 hoodiana, 66
 Chironomus *cayuga*, 308
 decorus, 308
 dorsalis, 308
 Chiromyia, 223, 287, 300
 flava, 300
 minima, 300
 Chromagrion conditum, 18
 Chrysops brunneus, 65
 Chrysops callidus, 64
 carbonarius, 64
 celer, 64
 cuclux, 64
 cursim, 64
 delicatulus, 65
 excitans, 64
 flavidus, 63, 64
 fulvostigma, 65
 hinei, 65
 lugens, 65
 mæchus, 65
 niger, 64
 obsoletus, 64
 parvulus, 65
 plangens, 65
 sackeni, 65
 univittatus, 64
 Chytonix, 179
 chlorostigma, 182
 iaspis, 183
 palliatricula, 183
 sensilis,
 viridimussa, 182
 Cicada australis, 77
 engelhardti, 77
 lyricen, 77
 hieroglyphica, 77
 pallida, 77
 parvula, 77
 pruinosa, 77
 sayi, 77
 Cicindela, 42
 blanda, 312
 chlorocephala, 67
 consentanea, 85
 debilis, 69
 graminea, 69
 hentzii, 85
 hirticollis, 80
 lantzii, 68
 laurentii, 69
 lepida, 85
 limbalis, 85
 longilabris, 85, 311
 marginata, 80
 marginipennis, 313
 media, 67
 patruela, 313
 rufiventris, 85
 saulcyi, 67
 segnis, 69
 sexguttata, 314
 scutellaris, 85
 smythi, 67
 splendida, 313
 unipunctata, 313

- Clerus ichneumoneus*, 318
Cnemidotus, 36, 111
Cœlambus, 47
 impressopunctatus, 37, 45
 inæqualis, 43, 46
 dispar, 46
 acaroides, 46, 47, 52
 nubilus, 46
 farctus, 47
 laccophilinus, 48
Colias, 314
Collops 4-maculatus, 71
Colymbetes sculptilis, 47, 50
Conocephalus, 275
 atlanticus, 177
 attenuatus, 178
 caudelianus, 81
 ensiger, 178
 exiliscanorus, 79, 81
 lyristes, 177
 melanorhinus, 177
 mexicanus fuscostriatus, 316
 nebrascensis, 178
 retusus, 177
 robustus, 178
Conservula, 181
Copelatus glyphicus, 37, 45
Copipanolis cubilis, 280
Coptotomus, 45, 47
 interrogatus, 46
Cordulegaster diastatops, 18
 erroneus, 19
 maculatus, 19
 obliquus, 19
Coscinoptera dominicana, 311, 315
Cosmia paleacea, 83, 181
Crambodes, 180
Creagris cineraceus, 153
 infirmus, 153
 luteipennis, 153
 mortifer, 153
 nigrostriatus, 154
 plagatus, 153
Cremastochilus, 280
Cremifania, 231
Cremiphilus digestus, 90
Criorhina verbosa, 67
Cryptochaetum, 230, 246
 iceryæ, 248
 monophlebi, 248
Cryptomeigenia, 302, 303
 aurifacies, 302
 theutis, 302
Cucullia, 181
Culex, 56
 abserratus, 58, 60
 abfitchi, 58, 60
 aurifer, 58, 61
 atropalpus, 60
 canadensis, 58, 60
 cantator, 28, 57
 discolor, 56, 57
 dupreei, 56, 58
 dyari, 58, 61
 fitchii, 58
 inconspicuus, 58
 jamaicensis, 57
 melanurus, 58, 59, 61
 musica, 58, 60
 nivitarsis, 58
 pallidohirta, 58
 perturbans, 58, 59, 60
 pretans, 58, 60
 pipiens, 56, 57, 58, 59, 60
 restuans, 56, 57, 58, 59
 salinarius, 57, 59
 saxatilis, 58, 59
 signifer, 58, 61
 sollicitans, 57
 subcantans, 58, 60
 sylvestris, 57, 61
 sylvicola, 58
 tæniorhynchus, 57, 61
 territans, 59
 triseriatus, 58, 61
 trivittatus, 57
Cuterebra, 76
Cyamops, 285, 291
 nebulosa, 292
Cybister, 34
 fimbriolatus, 44
Cychrus nitidicollis, 73
 elevatus, 276
Cymothales bouvieri, 155
 eccentros, 155
 johnstoni, 155
 speciosus, 155
Cyphon, 90
Cyrtonotum, 228
Cystodiplosis, 218

Dasyneura aromaticæ, 215
 cercocarpi, 215
 flavoabdominalis, 215
 parthenocissi, 216
Decadon verticillata, 79
Deilephila lineata, 87
Delta, 181
Dermestes caninus, 84
Deronectes depressus, 37, 52
 striatellus, 45
 griseostriatus, 46, 53
Desmometopa, 223, 228, 229, 236, 241,
 242

- Desmometopa latipes, 241
 m-nigrum, 241
 sordidum, 241
 tarsalis, 241
 Desmopachria, 45
 convexa, 47
 Diapheromera carolina, 81
 femorata, 82
 veliei, 82
 Diastata, 285, 290
 eluta, 290, 300
 modesta, 290
 nebulosa, 290
 pulchra, 290
 tenuipes, 290
 Dicranomyia, 195
 andicola, 197
 cordillerensis, 196, 212
 elegantula, 195, 196, 212
 gloriosa, 193, 196
 halterata, 198
 insignifica, 197
 lineicollis, 197
 longiventris, 198, 212
 ornatipennis, 197
 particeps, 198
 simillima, 198
 Dictya, 313
 Didymops transversa, 22
 Dineutes assimilis, 80
 Dipterygia, 179
 patina, 182
 Dissosteira, 148
 Domomyza, 247, 259
 tania, 258
 Donacia, 36, 40
 emarginata, 281
 Dorocordulia lepida, 23
 libera, 24
 lintneri, 280
 Dromogomphus spinosus, 20
 Drosophila, 87, 222, 282
 punctulata, 273
 repleta, 273, 287
 Dryobota, 179
 illocata, 83, 185
 Dryops, 35
 Dytiscus, 44, 47
 hybridus, 47
 dauricus, 49
 Eacles imperialis, 314
 Eccoptomma, 234
 Elodea, 79
 Emphanopteryx, 302, 303
 eumyotroides, 302
 Enargia, 181
 Enallagma annexum, 15
 aspersum, 17
 carunculatum, 17
 civile, 17
 cyathigerum, 15
 divagans, 16
 doubledayi, 17
 durum, 15
 ebrium, 17
 exsulans, 17
 geminatum, 15
 hageni, 16
 pollutum, 17
 pictum, 17
 piscinarium, 16, 84
 recurvatum, 15, 16
 signatum, 17
 Eois ptelearia, 87
 Epiaeschna heros, 22
 Epicordulia princeps, 23
 Epimecis, 187
 Epiphragma cordillerensis, 202
 Epithea, 9
 Erastria, 180
 includens, 183
 Erebus odora, 317
 Eremobia maillardi, 185, 186
 Eretes sticticus, 44
 Erioptera, 200
 andina, 200, 212
 Eristalis aeneus, 66
 bastardi, 66
 meigenii, 66
 tenax, 66
 Erythemis simplicicollis, 26
 Erythrodiplax berenice, 10, 26
 Espeletia grandiflora, 194
 Ephiphragma, 202, 203
 cordillerensis, 202, 212
 solatrix, 203
 Eumerus, 279
 Eumichtis, 179
 Euplexia, 181, 182
 Euproctis chryssorrhœa, 82
 Eurhizophagus, 310
 Eusiphona, 220, 235, 240
 mira, 240
 Eustrotia, 179, 180
 caduca, 182
 retis, 182
 Euthychæta, 285
 Eutrichopoda, 147, 148
 Eutrixia, 302, 303
 exile, 302
 Eutrixoides, 302, 303
 Euxoa detorsa, 87
 velleripennis, 83

- Exyra rolandiana*, 80
Fagitana, 181
Feralia major, 281, 282
Formica schaufussi, 311, 315
Formicaleo diversus, 152
 harpalyce, 153
 hesione, 15
 lepidus, 153
 lituratus, 152
 lynx, 152
 madagascarensis, 151

Galactomyia, 147, 148
Galasa rubidana, 312
Gandulus leptogaster, 155
Gryllotalpa borealis, 79
Geomyza, 284, 288
 combinata, 288, 289
 lurida, 288, 289
 monostigma, 288
 venusta, 288
Geranomyia, 198
 insignis, 198
 rostrata, 198
Gomphæschna antilope, 21
 furcillata, 21
Gomphoides obscura, 19
 cornutus, 76
Gomphus exilis, 20
 fucifer, 20
 lividus, 20
 plagiatus, 20
 sordidus, 20
 spicatus, 20
 ventricosus, 20
 villosipes, 20
Gonomyia, 199
 andicola, 199, 212
Graphiphora garmani, 316
Graphoderes cinereus, 47
Gryllotalpa borealis, 79
Gryllus abbreviatus, 86, 87
 pennsylvanicus, 87
Gymnoleon elizabethæ, 153
 exilis, 153
 gaillandi, 153

Hæmonia, 35, 40
Hadena, 179
 bridghami, 183
 claudens, 185
 diversicolor, 184
 egens, 185
 exulis, 185, 186
 exhausta, 183
 fractilinea, 186

Hadena hausta, 185
 jocasta, 185
 lona, 185
 mactata, 185
 misera, 186
 miselioides, 182
 modica, 183
 turbulenta, 183
Hadenella, 179
 minuscula, 183, 186
Hagenius brevistylus, 19
Hagenomyia luctuosa, 151
Halesus argus, 6
 hostis, 7
Haliphus, 92, 93, 111, 122
 annulatus, 107, 108
 blanchardi, 108, 110, 111
 borealis, 97, 107, 108, 109, 110, 111
 concolor, 105, 106
 confluentus, 106
 connexus, 95, 99
 cribrarius, 52, 100, 101
 cylindricus, 102
 deceptus, 91, 97, 98
 fasciatus, 95, 99
 gracilis, 102
 leopardus, 99
 lewisii, 97, 107, 108
 longulus, 109, 111
 mimeticus, 91, 106
 nitens, 100
 ochraceus, 96
 pallidus, 109, 110, 111
 punctatus, 95, 99
 ruficollis, 107, 108, 109, 111
 rugosus, 103
 strigatus, 110, 111
 subguttatus, 100
 suturalis, 96, 97, 99
 tumidus, 104, 105
 triopsis, 95, 96, 99
 vancouverensis, 91
Haltica bimarginata, 83
Helicopsyche annulicornis, 57
Helobia punctipennis, 74, 274
Helochares, 55
Helocordulia uhleri, 23
Helophilus hamatus, 66
 lætus, 66
Helophorus, 34, 55
Helotropha, 179
 caduca, 182
 obtusa, 183
 reniformis, 182
 retis, 182
Hemeromyia, 247, 249
 obscura, 249

- Hemileuca tricolor*, 87
Hetærina americana, 13
Heterocampa inornata, 316
Hibiscus moscheutos, 63
Hillia, 182
Hippa, 181
Homohadena, 181
Homoptera angulifera, 281
Horaismoptera, 237
Hormomyia, 62
Hudsonia tomentosa, 85, 86
Hydaticus piceus, 46
Hydræna, 55
Hydriomena contracta, 82
Hydrobius, 41
 tesselatus, 38
Hydrocanthus, 45
 iricolor, 47
Hydrochus, 34
Hydrophilus, 37, 54
 triangularis, 78
Hydroporus, 47
 appalachius, 53
 blanchardi, 52
 concinus, 51
 cimicoides, 51
 despectus, 49
 dichorus, 46
 difformis, 48
 dilatatus, 51
 mellitus, 50, 51
 modestus, 46
 morio, 53
 oblitus, 53
 oblongus, 72
 persimilis, 53
 pulcher, 50, 52
 schwarzi, 51
 septentrionalis, 51
 signatus, 53
 solitarius, 51
 spurius, 51, 52
 stagnalis, 53
 striatopunctatus, 50
 tenebrosus, 49
 tristis, 48, 49
 undulatus, 46
 venustus, 51
 vitiosus, 52
 vittatus, 51
 wickhami, 51
Hydropsyche, 5, 6
Hydrotripes palpalis, 52
Hydrous, 54
 triangularis, 38
Hydrovatus, 45
 cuspidatus, 43
Hypantria cunea, 87
 pallida, 87
Hypaspistomyia, 236
Hyperecteina, 304
 demylus, 304
 hylotomæ, 304
 metopina, 304
 setigera, 304
Ilybiosoma bifaria, 47
Ilybius confusus, 45, 49
 ignarus, 48, 49
 pleuriticus, 49
 discedens, 49
 biguttatulus, 49
Ipimorpha, 181
Ischalia costata, 281
Ischnomyia, 285, 292
 albicosta, 293
 spinosa, 292
Ischnura posita, 18
 ramburii, 10, 18
 verticalis, 18
Itonidia inops, 74
 taxodii, 63
Jodia rufaga, 280
Klapalekus nubilatus, 153
Laccophilus, 45, 47
 quadrilineatus, 44
 proximus, 45
 fasciatus, 45
Lachnosterna, 302
Ladona exusta, 24
 deplanata, 24
Lanthus albistylus, 20
 parvulus, 20
Laphygma, 181
Lasioderma serricorne, 87
Lasioptera arundinis, 62
 flexuosa, 62
Lasius latipes, 314
Lecteria conspersa, 205
Leiomyza, 228
Lemna, 40
Leptoglossus, 148
Leptometopa, 235, 236, 241
Leptotrachelis dorsalis, 276
Lestes, 78
 congener, 14
 disjunctus, 14
 eurinus, 13
 forcipatus, 14
 inæqualis, 14
 rectangularis, 14

- Lestes uncatatus*, 14, 84
 unguiculatus, 14
 vigilax, 14
Lestaphonus, 220, 248
Leucania unipunctata, 79
Leuconycta, 180
 diphteroides, 180
Leucopis, 228, 231
 bella, 232
 bellula, 232
 griseola, 232, 300
 maculata, 232
 nigricornis, 232
 simplex, 231, 232
Leucorhinia intacta, 27
Libellula auripennis, 24
 axillena, 24,
 basalis, 24, 29
 cyanea, 25
 flavida, 25
 incesta, 25
 luctuosa, 24
 pulchella, 11, 25
 quadrimaculata, 25
 semifasciata, 24, 25
 vibrans, 25
Limnophila lloydi, 205, 212
 guttulatissima, 205
 orophila, 205
Lipochæta, 228
Lispa albitarsis, 129, 131, 132, 141
 antennata, 129, 131, 132, 137, 144
 brevipes, 129, 131, 137
 cinifera, 139
 consanguinea, 130
 flavicincta, 130
 hispida, 130
 johnsoni, 129, 131, 132, 138, 139
 nasoni, 129, 130, 131, 132, 142
 nigromaculata, 130, 134
 palposa, 129, 131, 132, 133
 patellata, 129, 131, 132, 140, 145,
 146
 polita, 129, 130, 131, 132, 146
 salina, 129, 130, 131, 132, 137, 139
 spinipes, 129, 131, 132, 136, 137
 sociabilis, 129, 131, 132, 140, 145,
 146
 sordida, 129, 131, 132, 137
 tentaculata, 129, 130, 131, 132,
 139, 140, 146
 uliginosa, 129, 130, 131, 132, 143,
 146
Liriomyza, 247, 266
 tubifer, 266
Lissorhoptrus, 41
Listronotus appendiculatus, 41
Listronotus latiusculus, 41
Litholomia, 181
Lithomia, 181
Lixophaga, 303, 304
Lophoglossus, 311, 315
Lucanus cervus, 282
Luperina, 179
 birnata, 185
 burgessi, 183
 niveivenosa, 182
 passer, 185
 stipata, 182
 trigona, 184
Lycæna pseudargiolus, 73
 scudderi, 73
Lygranthæcia thoreani, 87

Macaria, 186, 187, 193
 liturata, 186, 187
Macromia illinoiensis, 22
Macronemrus, 152
 cloranthe, 152
 euanthe, 152
 ianthe, 152
 striola, 152
 tinctus, 152
Macronoctua, 179
 onusta, 185
Macronychus glabratus, 39
Macrops solutus, 41
Madiza, 236, 241
 halteralis, 241, 246, 300
Magdalis barbata, 281
Magusa, 181
Malachius æneus, 317
Matus bicarinatus, 48, 50
Melanophila fulvoguttata, 214
Melanoplus bivittatus, 79
Megilla, 282
Megistopus, 154
Meoneura, 223, 238, 246
 vagans, 246, 300
Mesoleuca immanata, 82
Methypostena, 303, 304
Miastor, 213
Microcælia, 180
Microdon, 279
Milichia, 234, 238
Milichiella, 234, 239
 arcuata, 239
 bisignata, 239
 cinerea, 239
 lacteipennis, 239
 nigrella, 239
 nitida, 239
Miscodera arctica, 73
Molanna cinerea, 78

- Molophilus perseus*, 201
Mumetopia, 286, 293
 nigrimana, 294
 nitens, 294
 occipitalis, 293, 294, 295
 terminalis, 294, 295
Musca pennipes, 147, 148, 313
Mutilla, 87
Mutilloptera, 285, 292
 apicalis, 292
Myrmecaelurus apicalis, 154
 lætus, 154
 lobatus, 154
 quedenfeldti, 154
 sectorius, 154
 subcostatus, 154
Myrmeleon abessinicus, 156
 africanus, 153
 atomarius, 154
 buyssoni, 150
 callidus, 154
 capensis, 150
 cinereus, 151
 doralice, 150
 fasciatus, 150, 151
 fictus, 150
 furcatus, 151
 hyalinus, 150
 infidus, 152
 lethifer, 151
 lineosus, 154
 medialis, 151
 mortifer, 153
 nigradorsis, 151
 obscurus, 150, 151
 ochroneurus, 151
 pertenuis, 156
 pervirgil, 153
 pulverulentus, 152
 secretus, 151
 stigmalis, 150
 subpunctatus, 153
Myrmelodes medius, 150
Myriophyllum, 40, 55

Nannothemis bella, 11, 26
Napomyza, 247, 272
 lateralis, 273
 parvicella, 273
 plagiata, 273
Narcissus, 279
Neadmontia limata, 304
 polita, 304
Nehalennia gracilis, 18
 irene, 17
Nelees clathratus, 152
 lucasi, 154

Nelees modestus, 152
Nelumbo, 80
Neoaalticomeres, 248
Neoplasioptera hibisci, 63
Neophyllomyza, 237, 243
 magnipalpus, 243
 nitens, 243, 244
 quadricornis, 243
Nepa, 31
Neptia pellucidaria, 83
 semiclusaria, 83
Nesoleon cognatus, 156
 divisus, 156
 erythræus, 156
 interruptus, 156
 lepidus, 156
 mysteriosus, 155
 pallens, 156
 rimatus, 156
 scalaris, 156
 tumidus, 156
 variegatus, 155
 virgatus, 156
Neurocordulia obsoleta, 23
Neuroleon alcidice, 155
 angustus, 155
 drosimus, 153
 extraneus, 153
 filiformis, 155
Neuroterus saltitorius, 74
Nonagria, 79
Notomicrus, 45
 nanulus, 52
Notonecta undulata, 32
Nymphula maculalis, 81
 icciusalis, 79

Obus arenosus, 153
Ochthebius attritus, 312
 foveicollis, 53, 77, 312
Ochthiphila, 228, 231
 aridella, 234
 elegans, 233
 geniculata, 233
 juncorum, 234
 lispina, 233
 maritima, 233
 polystigma, 233, 300
Odinia, 247, 248
 boletina, 249
 immaculata, 248
 maculata, 248
 picta, 248
Oligia, 179, 180
Ommatostola, 79, 181
Omophron labiatum, 80
 tesselatum, 80

- Onota floridana*, 276
Ophelia pelidina, 79
Ophiogomphus johannus, 19
 rupinsulensis, 19
Opomyza, 284, 289
 signicosta, 289
Opuntia, 85
Orchelimum pulchellum, 79
 volentum, 80
Oromyia, 203, 204
 lloydi, 203, 204, 212
Orthosia, 179
 lutosa, 185

Pachydiplax longipennis, 27
Pachyrhina alleni, 206, 207
 nigrolutea, 207
 usta, 207
Palorus melinus, 275
Pamphila metea, 281
 panoquin, 79
Pantala flavescens, 28
Papaipema stenocelis, 88
Papilio brevicauda, 73
 turnus, 73
Paramadiza, 237, 245
 washingtona, 246
Paramyia, 235, 240
 niteus, 240
Paranthaclisis, 149
Paranthomyza, 286
Parastichtis, 179, 181
 dionea, 184
Parochthiphila, 231
Parodinia, 296
Paroxya floridiana, 79
Parthenos nubilus, 281
Patamogeton crispus, 306
Patrobus rugicollis, 72
Pelomyia, 220, 229
Pelodytes, 92, 93, 111, 114
 callosus, 111, 112, 119, 122
 dispersus, 113, 122
 edentulus, 122, 123
 festivus, 121, 122
 floridensis, 114, 115, 116, 118, 123
 lengi, 119, 123
 littoralis, 121, 123
 muticus, 114, 116, 120, 122
 oppositus, 114, 115, 123
 pedunculatus, 118, 120, 121, 122,
 123
 sexmaculatus, 116
 simplex, 112, 113
 shermani, 114, 116, 118, 120
 tortulosus, 118, 123
 12-punctatus, 111, 112, 119, 122

Pemphus, 279
Peratochaetus ornatus, 288
Pergus centauræa, 281
Perigea, 180
 xanthioides, 184
Perithemis domitia, 11, 26
 tenera, 26
Perrisia inclusa, 62
Phanoclisia, 150
Philhydrus, 155
 cinctus, 38
 consors, 38
 hamiltoni, 41
Philobia, 186, 187, 188, 193
 æmulataria, 189, 191, 193
 æternata, 192
 aspirata, 191
 enotata, 189
 liturata, 192
 notata, 186, 187, 192
 perplexata, 190
 sectomaculata, 189, 190
 ulsterata, 188, 193
 versitata, 191, 193
Phlosia dimidiata, 82
Pholeomyia, 234
 dispar, 238
 leucogastra, 238
 leucozona, 238
 indecora, 238, 300
 myopa, 238
 pseudodecora, 238
 robertsoni, 238
Phormia regina, 74, 274
Phorocera einaris, 304
Phryganea interrupta, 7
Phyllobasis, 203, 204
Phyllomyza, 236, 242
 securicornis, 242
Phytobius velatus, 40
Phytomyza, 226, 230, 247, 250
 acuticornis, 269
 affinis, 271
 albiceps, 271
 analisis, 270
 aquilegiæ, 271
 bicolor, 269
 bipunctata, 271
 chrysanthemis, 271
 clematidis, 270
 clemativora, 270
 crassiseta, 271
 flava, 270
 flavicornis, 270
 flavoscutellata, 270
 genalis, 270, 272
 genualis, 271

- Phytomyza ilicicola*, 270
 morio, 272
 nervosa, 270
 nigra, 270
 nigripennis, 269
 nigritella, 270
 nitida, 269
 obscura, 270, 271, 272
 orbitalis, 270
 solita, 271
 zetterstedti, 270
Plathemis lydia, 25
 trimaculata, 11, 25
Platophrymia, 235, 236, 241, 300
 nigra, 241
Platycentropus maculipennis, 7, 8
Platychirus, 89
 chaetopodus, 66
 hyperboreus, 66
 quadratus, 66
Platypena scabra, 89
Platypus punctulatus, 74, 275
Plodia interpunctella, 314
Polia, 180
Polistomyia, 147, 313
Polycentropus, 7
Polygonum amphibium, 41
Polygrammate, 180
Porosagrostis vetusta, 87
Potamogeton, 40
Prionapteryx nebulifera, 86, 87, 313,
 315
Prodenia, 181
Psedera quinquefolia, 216
Psenocerus supernotatus, 315
Psephenus, 35, 36
 lecontei, 39
Pseudiasata, 284, 289
 nebulosa, 289
Pseudodinia, 286
 nitida, 295
 pruinosa, 295
 varipes, 295
Pseudomilichia, 234
Pseudomythyria, 304
Pseudopomyza, 228, 237, 286
Psilotreta frontalis, 7
Psinidia fenestralis, 86
Psithyrus, 276
Psorophora ciliata, 57
Pyrausta penitalis, 80
Pyrophæna, 89
Pyrrhia, 181

Quercus nana, 315

Ranatra, 31

Rhabdophaga cephalanthi, 62
Rhantus binotatus, 47, 50
 calidus, 47, 50
 notatus, 47
 sinuatus, 48
Rhinoessa, 223, 229, 230, 231, 287,
 296, 298
 albula, 298
 milichioides, 298, 299
 willistoni, 298
 whitmani, 298
 xanthopoda, 298
Rhizophagus, 309, 313
 approximatus, 310
 bipunctatus, 310
 brunneus, 309
 cylindricus, 309, 310
 depressus, 310
 dimidiatus, 310, 311, 314
 dispar, 309, 310, 311
 fenyesi, 309, 313
 grouvellei, 309, 313
 minutus, 310
 parallelocollis, 309, 310, 313, 314
 procerus, 309
 remotus, 310, 314
 robustus, 310
 sayi, 309
 scalpturatus, 309
Rhodesiella, 220, 237
Rhynchomilichia, 238
Risa, 235
Rudbeckia, 279

Sagittaria, 40
 variabilis, 41
Sambucus, 312
Samia columbia, 82, 83
Sarcophaga georgina, 74, 274
Satyrus alope, 317
Schœnobius, 79
Schœnomyza litorella, 233
Schistocera alutacea, 79, 86
 damnifica, 86
 rubiginosa, 79, 86
Sciographia, 187
 granitata, 187
Sciara militaris, 274
 sciophila, 274
 thomæ, 274
Scirpophaga, 79
Scirpus, 194
Scirtetica marmorata, 86
Scolytus quadrispinosus, 83, 123, 124
Scopelosoma tristigmata, 83
Scudderia texensis, 79
Scutopterus angustatus, 49

- Scutopterus horni*, 49
Scutops, 285, 291
 fascipennis, 291
Scyphella, 300
Selachops, 220, 286
Semiothisa, 187
Senotainia, 304
Senta, 180
Sephanilla, 228
Sogra, 149
 brachygaster, 149
 difficilis, 149
 distincta, 149
 iracunda, 150
 infernalis, 149
 mordax, 150
 maillardi, 149
 nigrata, 149
 pertinax, 149
 perversa, 149
 rixosa, 149
Somatochlora filosa, 24
 tenebrosa, 24
Smerinthus cerisii, 82
Siettitia, 53
Siligo, 220, 296
 oregona, 297
Sinophthalmus, 220, 283, 287
 pictus, 288
Sitodrepa panicea, 85
Spermophagus robiniaë, 279
Sphagnum, 194
 acutifolium, 49
 girgensohnii, 49
Spharagemon saxatile, 86
Sphecodina abbotii, 88
Sphenophorus, 41
Sphex speciosus, 85
Spilochroa, 227, 284, 288
 ornata, 288
Stegana, 222
Stenopelmus rufinatus, 40
Stomosis, 237, 242
 luteola, 242
Sympetrum, 11
 corruptum, 27
 obtrusum, 26
 rubicundulum, 26
 semicinctum, 27
 vicinum, 27
Tabanus americanus, 65
 atratus, 65
 bicolor, 65
 cinctus, 65
 costalis, 64, 65
 exul, 65
Tabanus giganteus, 65
 lasiophthalmus, 65
 lineola, 65
 molestus, 65
 nigrovittatus, 65
 orion, 65
 osburni, 76
 pumilis, 65
 trispilus, 65
 zonalis, 65
Tachinophyto, 303
Tachopteryx thoreyi, 18
Tæniosea, 181
Tanysphyrus, 35
 lemnæ, 40
Tapinostola, 182
Tauromyia pachyneura, 289
Taxodium, 63
Temnochila virescens, 318
Tenebrioides dubius, 281, 315
Tethina, 224, 229, 230, 287, 297
 coronata, 297
 maritima, 297
 parvula, 297
 rostrata, 297
Tetragoneuria, 9
 cynosura, 23
 semiaquea, 23
 spinigera, 23, 84
 spinosa, 23
Thalesia uniflora, 314
Thecla augustus, 281
 irus, 281
Thecodiplosis ananassi, 63
 dulichii, 62
Thephroclystis interruptofasciata, 82
Thercoa lanipes, 147
 plumipes, 147
Thermonectes basilaris, 45, 47
Thurania aquatica, 62
 uliginosa, 62
Tipula carizona, 208, 209
 miranha, 210
 mocoa, 210
 monilifera, 209
 moniliformis, 209
 paulseni, 211
Trachea, 179
 delicata, 182
 indocilis, 185
Traginops, 246, 248
 irrorata, 248
Tramea carolina, 29
 lacerata, 28
Trichiopoda, 147, 148, 313
 plumipes, 147
 radiata, 147, 148

- Trichiopoda trifasciata*, 147
Trichopoda, 148
Trichopodopsis, 148, 313
Tridactylus, 80
Trigonophora, 182
Trimerotropis maritima, 86
Trimicra, 202
Trixoclista, 304
Trixoscelis, 286, 296
 canescens, 296
 cinerea, 296
 costalis, 296
 frontalis, 296, 300
 litorea, 296
 prima, 296
Trptheo luna rubromarginata, 281
Tropidia quadrata, 66
Tropisternus, 54
 mixtus, 90
Tryptochæta, 285, 289
 micans, 289
Tsuga canadensis, 214
Typha, 46

Ulia, 234
Uranotænia sapphirina, 58, 59

Viviania lachnosternæ, 302
Volucella, 279
 fasciata, 87

Winnertzia aceris, 213
 calciequina, 213
 pectinata, 213
Woodwardia virginia, 88
Wyomyia smithi, 56, 58, 61

Xanthia, 181
 flavago, 83
Xuthia brevipes, 275
Xylina, 181
 baileyi, 83
 bethunei, 83
 fagina, 83
 ferrealis, 83
 georgi, 83
 petulca, 83
 pexata, 83
 signosa, 83
Xyloborus torquatus, 275
Xylophasia, 179
 apamiformis, 185
 arctica, 183
 cariosa, 184
 cogitata, 183, 186
 devastatrix, 185
 dubitans, 186
 ducta, 185, 186
 exornata, 185
 impulsa, 182
 inordinata, 182
 lateritia, 183
 lignicolor, 184
 nigrior, 184
 plutonica, 186
 remissa, 185
 rorulenta, 185
 suffusa, 185
 verbascoides, 184
 vulgaris, 184
 vultuosa, 184, 185

Zagonia, 286, 297
 flava, 297